**Store at -20C**

**#2959**

# Erlin-2 Antibody

## Cell Signaling
### T E C H N O L O G Y®

| | |
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source: | UniProt ID: | Entrez-Gene Id: |
|---|---|---|---|---|---|---|
| WB, IP | H M | Endogenous | 43 | Rabbit | #O94905 | 11160 |

**Product Usage Information**

| Application | Dilution |
|---|---|
| Western Blotting | 1:1000 |
| Immunoprecipitation | 1:50 |

**Storage**
Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

**Specificity / Sensitivity**
Erlin-2 Antibody detects endogenous levels of human erlin-2 protein.

**Source / Purification**
Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln315 of mouse erlin-2. Antibodies are purified by peptide affinity chromatography.

**Background**
Erlin-1 and erlin-2 (SPFH1 and SPFH2) are SPFH domain-containing proteins that belong to the prohibitin family (1,2). The N-termal domain of erlin proteins contains ER-targeting sequences responsible for their translocation to the endoplasmic reticulum (ER) (3). In the ER, erlin-1 and erlin-2 specifically associate with the detergent resistant lipid raft microdomain of the membrane (3). Erlin-1 may be involved in dentritic cell activation (4) and erlin-2 has been shown to regulate the ER-associated degradation (ERAD) pathway by interacting with endogenous substrates and resulting in their polyubiquitination and degradation (5).

**Background References**
1. Browman, D.T. et al. (2007) *Trends Cell Biol* 17, 394-402.
2. Morrow, I.C. and Parton, R.G. (2005) *Traffic* 6, 725-40.
3. Browman, D.T. et al. (2006) *J Cell Sci* 119, 3149-60.
4. Li, N. et al. (2000) *Biochem Biophys Res Commun* 279, 487-93.
5. Pearce, M.M. et al. (2007) *J Biol Chem* 282, 20104-15.

**Species Reactivity**
Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**
IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**
 **WB:** Western Blotting **IP:** Immunoprecipitation

**Cross-Reactivity Key**
**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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